Postel

NWG/RFC# 503
Socket Number List

NJN JBP 13-APR-73 06:24 15747

Network Working Group
Request for Comments: 503

NIC 15747

Categories: Socket Numbers
References: 349, 433

Nancy J. Neigus
Jon Postel
12 April 1973

RECEIVED
APR 17 1973

# Socket Number List

This is a second pass at the specification of socket numbers. More sockets have been made available for experimental functions, some new sockets have been assigned for network standard functions, host specific functions and experimental functions, and the list of available sockets for server hosts has been updated.

Following are the current assignments for socket numbers used for public functions. Note that a socket number is a 40 bit quantity, the first 8 bits being the host specification, the next 24 bits being site specific, and the last 8 bits being user specified - these last 8 bits are called the AEN [it stands for, cleverly enough, Another Eightbit Number].

For the assignments here the value in the host field ranges across all hosts (unless otherwise specified), the value in the 24 bit field is zero, and the AEN is indicated here.

General Assignments:

| Sockets | Assignment |
|---|---|
| 0 - 63 | Network Wide Standard Functions |
| 64 - 127 | Host Specific Functions |
| 128 - 223 | Reserved for Future Use |
| 224 - 255 | Any Experimental Function |

Particular Assignments:

| Socket | Assignment |
|---|---|
| 1 | Telnet |
| 3 | File Transfer |
| 5 | Remote Job Entry |
| 7 | Echo |
| 9 | Discard |
| 11 | Systat or who-is-on function |
| 13 | Date-Time function |
| 15 | Netstat or who-is-up function |
| 19 | Character Generator [e.g. TTYTST] |
| 65 | Speech Data Base @ ll-tx-2 (74) |

```
socket          assignment
```

| | |
|---|---|
| 67 | Datacomputer @ cca (31) |
| 69 | CPYNET |
| 71 | NETRJS [EBCDIC] |
| 73 | NETRJS [ASCII] |
| 75 | NETRJS [TTY] |
| | |
| 241 | NCP Measurement |
| 243 | Survey Measurement |
| 245 | LINK |
| 247 | RSEXEC |
| 249 | RSEXEC |
| 251 | RSEXEC |

NWG/RFC# 503 NJN JBP 13-APR-73 06:24 15747
Socket Number List

The specifications for the assigned functions can be found in the documents listed here:

| | |
|---|---|
| Telnet | NIC 7104 |
| File Transfer | NIC 7104 |
| Remote Job Entry | NIC 7104 |
| Echo | RFC 347 |
| Discard | RFC 348 |
| Character Generator | RFC 429 |
| Speech Data Base | SUR 37 |
| Datacomputer | [Murray @ CCA] |
| NCP Measurment | RFC 388 |
| Survey Data | [Kampe @ NMC] |
| LINK | [Bressler @ BBN] |
| RSEXEC | [Thomas @ BBN] |

There are several hosts performing public services on sockets which conflict with the above scheme. We hope we can resolve these conflicts with a minimum of disruption.

The following is a tabulation of socket numbers together with the services offered. This listing is presented as an aid to network users. If you know of a socket/function which has been left out or an entry which should be corrected or deleted please contact:

Jon Postel
3804 Boelter Hall
Computer Science Department
University of California
Los Angeles, CA. 90024

Phone: (213) 825-2368

NIC Ident = JBP

or

Nancy J. Neigus
Bolt Beranek and Newman
50 Moulton Street
Cambridge, Mass. 02138

Phone: (617) 661-0100

NIC Ident = NJN

We will be pleased to include socket/function information for other than "offical" sockets [e.g Tip News].

The specifications for the assigned functions can be found in the documents listed here:

| | |
|---|---|
| Telnet | NIC 7104 |
| File Transfer | NIC 7104 |
| Remote Job Entry | NIC 7104 |
| Echo | RFC 347 |
| Discard | RFC 348 |
| Character Generator | RFC 429 |
| Speech Data Base | SUR 37 |
| Datacomputer | [Murray @ CCA] |
| NCP Measurement | RFC 388 |
| Survey Data | [Kampe @ NRC] |
| LINK | [Bressler @ BBN] |
| RSEXEC | [Thomas @ BBN] |

There are several hosts performing public services on sockets which conflict with the above scheme. We hope we can resolve these conflicts with a minimum of disruption.

The following is a tabulation of socket numbers together with the services offered. This listing is presented as an aid to network users. If you know of a socket/function which has been left out or an entry which should be corrected or deleted please contact:


Jon Postel
3804 Boelter Hall
Computer Science Department
University of California
Los Angeles, CA. 90024

Phone: (213) 825-2368

NIC Ident = JBP

or

Nancy J. Neigus
Bolt Beranek and Newman
50 Moulton Street
Cambridge, Mass. 02138

Phone: (617) 661-0100

NIC Ident = NJN


We will be pleased to include socket/function information for other than "official" sockets [e.g Tip News].

Socket Number List

| | | |
|---|---|---|
| 1 | UCLA-NMC | 10a |
| 1 | Telnet | 10a1 |
| 3 | File Transfer | 10a2 |
| 241 | NCP Measurement | 10a3 |
| 243 | Survey Data | 10a4 |
| 2 | SRI-ARC | 10b |
| 1 | Telnet | 10b1 |
| 3 | File Transfer | 10b2 |
| 7 | Echo | 10b3 |
| 11 | SYSTAT | 10b4 |
| 13 | DATE-TIME | 10b5 |
| 69 | CPYNET | 10b6 |
| 3 | UCSB | 10c |
| 1 | Telnet | 10c1 |
| 5 | UCSB RJS [not ARPANET standard] | 10c2 |
| 7 | Echo | 10c3 |
| 9 | Discard | 10c4 |
| 1793, 1795, 1797, 1799, 1801, 2049 Graphics terminal sockets<br>x'701', '703', '705', '707', '709', '801'<br>o'3401', '3403', '3405', '3407', '3411', '4001' | | 10c5 |
| 4 | UTAH | 10d |
| 1 | Telnet | 10d1 |
| 3 | File Transfer | 10d2 |
| 5 | Echo | 10d3 |
| 7 | CPYNET | 10d4 |

```
7    CHANEL
6      Echo
5    File Transfer
4      Telnet
3    DATA
2      Telnet
1      File Transfer
0      Echo
7    DCSB
6      Telnet
5      DCSB BAS [not ABBANET afmudstd]
4      Echo
3    Diagstd
2      Echo
1      DCSB BAS [not ABBANET afmudstd]
0      Telnet
7    DCSB
6      Telnet
5      DATE-TIME
4      SYSTAT
3      Echo
2      File Transfer
1      Telnet
0    ARI-ASC
7      Survey Data
6      NCP Measurement
5      File Transfer
4      Telnet
3    DCIA-ASC
2      File Transfer
1      Telnet
0      Echo
7    CHANEL
6      Echo
5      File Transfer
4      Telnet
3    DATA
2      Telnet
1      File Transfer
0      Echo
7    DCSB
6      Telnet
5      DCSB BAS [not ABBANET afmudstd]
4      Echo
3    Diagstd
2      Echo
1      DCSB BAS [not ABBANET afmudstd]
0      Telnet
7    DCSB
6      Telnet
5      DATE-TIME
4      SYSTAT
3      Echo
2      File Transfer
1      Telnet
0    ARI-ASC
7      Survey Data
6      NCP Measurement
5      File Transfer
4      Telnet
3    DCIA-ASC
2      File Transfer
1      Telnet
0      Echo
7    CHANEL
6      Echo
5      File Transfer
4      Telnet
3    DATA
2      Telnet
1      File Transfer
0      Echo
7    DCSB
6      Telnet
5      DCSB BAS [not ABBANET afmudstd]
4      Echo
3    Diagstd
2      Echo
1      DCSB BAS [not ABBANET afmudstd]
0      Telnet
7    DCSB
6      Telnet
5      DATE-TIME
4      SYSTAT
3      Echo
2      File Transfer
1      Telnet
0    ARI-ASC
7      Survey Data
6      NCP Measurement
5      File Transfer
4      Telnet
3    DCIA-ASC
2      File Transfer
1      Telnet
0      Echo
7    CHANEL
6      Echo
5      File Transfer
4      Telnet
3    DATA
2      Telnet
1      File Transfer
0      Echo
7    DCSB
6      Telnet
5      DCSB BAS [not ABBANET afmudstd]
4      Echo
3    Diagstd
2      Echo
1      DCSB BAS [not ABBANET afmudstd]
0      Telnet
7    DCSB
6      Telnet
5      DATE-TIME
4      SYSTAT
3      Echo
2      File Transfer
1      Telnet
0    ARI-ASC
7      Survey Data
6      NCP Measurement
5      File Transfer
4      Telnet
3    DCIA-ASC
2      File Transfer
1      Telnet
0      Echo
```

```
Socket number field
XXX\BIT# 765                                    BIT 7=DCSA-ET 6=DCSB-ET 5=ASA-ET 4=ASB-ET 3=ASC-ET 2=ASD-ET 1=ASE-ET 0=ASF-ET
```

Socket Number List

| | | |
|---|---|---|
| 9 | SYSTAT | 10d5 |
| 13 | DATE-TIME | 10d6 |
| 6 | MIT-Multics | 10e |
| 1 | Telnet | 10e1 |
| 3 | File Transfer | 10e2 |
| 8 | SDC-Adept | 10f |
| 1 | Telnet | 10f1 |
| 9 | Harvard | 10g |
| 1 | Telnet | 10g1 |
| 3 | File Transfer | 10g2 |
| 10 | LL-67 | 10h |
| 1 | Telnet | 10h1 |
| 11 | SAIL | 10i |
| 1 | Telnet | 10i1 |
| 3 | File Transfer | 10i2 |
| 13 | CASE | 10j |
| 1 | Telnet | 10j1 |
| 3 | File Transfer | 10j2 |
| 7 | Echo | 10j3 |
| 11 | SYSTAT | 10j4 |
| 13 | DATE-TIME | 10j5 |
| 69 | CPYNET | 10j6 |
| 14 | CMU | 10k |
| 1 | Telnet | 10k1 |

Socket Number List

| | |
|---|---|
| 9 | SYSTAT |
| 13 | DATE-TIME |
| 6 | BIT-Multics |
| 1 | Telnet |
| 3 | File Transfer |
| 8 | SDC-Adept |
| 1 | Telnet |
| 9 | Harvard |
| 1 | Telnet |
| 3 | File Transfer |
| 10 | LL-67 |
| 1 | Telnet |
| 11 | SATL |
| 1 | Telnet |
| 3 | File Transfer |
| 13 | CASE |
| 1 | Telnet |
| 3 | File Transfer |
| 7 | Echo |
| 11 | SYSTAT |
| 13 | DATE-TIME |
| 65 | CFYNET |
| 19 | CMU |
| 1 | Telnet |

| | | |
|---|---|---|
| 3 | File Transfer | 10k2 |
| 15 | ILLIAC-TENEX | 101 |
| 1 | Telnet | 1011 |
| 3 | File Transfer | 1012 |
| 5 | Echo | 1013 |
| 7 | CPYNET | 1014 |
| 9 | SYSTAT | 1015 |
| 13 | DATE-TIME | 1016 |
| 16 | NASA-AMES | 10m |
| 1 | Telnet | 10m1 |
| 3 | File Transfer | 10m2 |
| 5 | Sorry Remote Job Entry | 10m3 |
| 7 | Echo | 10m4 |
| 9 | Discard | 10m5 |
| 241 | NCP Measurement | 10m6 |
| 23 | USC-44 | 10n |
| 1 | Telnet | 10n1 |
| 31 | CCA-TENEX | 10o |
| 1 | Telnet | 10o1 |
| 3 | File Transfer | 10o2 |
| 7 | Echo | 10o3 |
| 11 | SYSTAT | 10o4 |
| 15 | NETSTAT | 10o5 |
| 35 | UCSD | 10p |

NWG/RFC# 503
Socket Number List

3 File Transfer

15 ILLIAC-TENEX

1 Telnet

3 File Transfer

5 Echo

7 CPYNET

9 SYSTAT

13 DATE-TIME

16 NASA-AMES

1 Telnet

3 File Transfer

7 Echo

9 Discard

241 NCP Measurement

23 OSC-44

1 Telnet

31 CCA-TENEX

1 Telnet

3 File Transfer

7 Echo

11 SYSTAT

15 NETSTAT

35 UCSD

Socket Number List

| | | |
|---|---|---|
| 1 | Telnet | 10p1 |
| 65 | UCLA-CCN | 10q |
| 1 | Telnet | 10q1 |
| 3 | File Transfer | 10q2 |
| 7 | Echo | 10q3 |
| 9 | Discard | 10q4 |
| 71 | NETRJS [EBCDIC] | 10q5 |
| 73 | NETRJS [ASCII] | 10q6 |
| 75 | NETRJS [TTY] | 10q7 |
| 66 | SRI-AI | 10r |
| 1 | Telnet | 10r1 |
| 3 | File Transfer | 10r2 |
| 5 | Echo | 10r3 |
| 7 | CPYNET | 10r4 |
| 9 | SYSTAT | 10r5 |
| 11 | Sorry NETSTAT | 10r6 |
| 69 | BBN-TENEX (a) | 10s |
| 1 | Telnet | 10s1 |
| 3 | File Transfer | 10s2 |
| 7 | Echo | 10s3 |
| 11 | SYSTAT | 10s4 |
| 13 | DATE-TIME | 10s5 |
| 15 | NETSTAT | 10s6 |
| 17 | Oneliners | 10s7 |

| | | |
|---|---|---|
| 17 | CHARGEN | 1013 |
| 15 | NETSTAT | 1015 |
| 13 | DATE-TIME | 1015 |
| 11 | SYSTAT | 1013 |
| 7 | Echo | 1017 |
| 5 | RJE to Transfer | 1015 |
| 1 | TCPMUX | 1011 |

PA BBN-TENEX (8)

| | | |
|---|---|---|
| 11 | Sorry NETSTAT | 1011 |
| 9 | SYSTAT | 1011 |
| 7 | CRYNET | 1011 |
| 5 | Echo | 1013 |
| 1 | TCPMUX | 1011 |

BE IBM-VI

| | | |
|---|---|---|
| 27 | NETBIOS [VTI] | 1011 |
| 23 | NETBIOS [ASCII] | 1011 |
| 21 | NETBIOS [EBCDIC] | 1011 |
| 9 | Discard | 1011 |
| 7 | Echo | 1011 |
| 5 | File Transfer | 1011 |
| 1 | TCPMUX | 1011 |

BS DCCA-CCN

| | | |
|---|---|---|
| 1 | TCPMUX | 1011 |

Socket Number List
NNG\BTCP 105

| | | |
|---|---|---|
| 69 | CPYNET | 10s8 |
| 247 = x'F7' = o'367' | TIP RSEXEC Facility | 10s9 |
| 70 | MIT-DMCG | 10t |
| 1 | Telnet | 10t1 |
| 3 | File Transfer | 10t2 |
| 7 | Network Status | 10t3 |
| 9 | Discard | 10t4 |
| 74 | LL-TX-2 | 10u |
| 1 | Telnet | 10u1 |
| 78 | CMU-alt | 10v |
| 1 | Telnet | 10v1 |
| 3 | File Transfer | 10v2 |
| 86 | ISI-TENEX | 10w |
| 1 | Telnet | 10w1 |
| 3 | File Transfer | 10w2 |
| 7 | Echo | 10w3 |
| 11 | SYSTAT | 10w4 |
| 13 | DATE-TIME | 10w5 |
| 69 | CPYNET | 10w6 |
| 133 | BBN-TENEXB | 10x |
| 1 | Telnet | 10x1 |
| 3 | File Transfer | 10x2 |
| 7 | Echo | 10x3 |
| 11 | SYSTAT | 10x4 |

Socket Number List

69 CPYNET

247 = x'F7' = o'367' TIP BSEXEC Facility

70 MIT-DMCG

1 Telnet

3 File Transfer

7 Network Status

9 Discard

70 LL-TX-2

1 Telnet

78 CMU-ait

1 Telnet

86 ISI-TENEX

1 Telnet

3 File Transfer

7 Echo

11 SYSTAT

13 DATE-TIME

69 CPYNET

133 BBN-TENEXB

1 Telnet

3 File Transfer

7 Echo

11 SYSTAT

Socket Number List

| | | |
|---|---|---|
| 13 | DATE-TIME | 10x5 |
| 15 | NETSTAT | 10x6 |
| 17 | Cneliners | 10x7 |
| 69 | CPYNET | 10x8 |
| 134 | MIT-AI | 10y |
| 1 | Telnet | 10y1 |
| 3 | File Transfer | 10y2 |
| 198 | MIT-Mathlab | 10z |
| 1 | Telnet | 10z1 |
| 3 | File Transfer | 10z2 |
| User only hosts - no server sockets | | 11 |
| 5 | NCC | 11a |
| 7 | RAND | 11b |
| 12 | ILI-ANTS | 11c |
| 19 | NBS-ANTS | 11d |
| 32 | PARC-MAXC (currently) | 11e |
| 138 | IL-TSP | 11f |
| 197 | BBN-1D | 11g |

Postel